

TSH Receptor antibody [4C1]

Catalog No.:	PP45
Quantity:	0.2 mg
Concentration:	1 mg/ml
Background:	<p>The TSH receptor, a G protein coupled seven transmembrane receptor, is present on the basal surface of thyroid follicular cells. It is involved in regulating thyrocyte cell growth and function by mediating thyroid stimulating hormone (TSH) action. The TSH receptor is also the target autoantigen in autoimmune thyroid diseases. Autoantibodies to the TSH receptor that stimulate cAMP production in thyrocyte cells, called thyroid stimulating antibodies, are responsible for the hyperthyroidism of Graves' Disease. Another class of autoantibodies that block the binding of TSH to the TSH receptor, thyroid blocking antibodies, may mediate the hypothyroidism associated with Hashimoto's thyroiditis, primary myxoedema, and neonatal hypothyroidism. Studies indicate that these autoantibodies interact primarily with the extracellular region of the TSH receptor. TSH receptor expression has been reported in adipose, adrenal, brain, eye, heart, kidney, skin, thymus, and thyroid. ESTs have been isolated from brain, placenta, and thyroid libraries.</p>
Host / Isotype:	Rabbit
Immunogen:	External domain of human TSH receptor linked to GST
Format:	State: Liquid Purification: Protein G affinity purified. Buffer System: Phosphate buffered saline pH 7.4 containing 0.09% Sodium Azide
Applications:	FACS, IHC-Fr, IHC-P, IP, WB Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Reacts with Human. Not yet tested in other species.
Storage:	Store at 4

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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